State of California AIR RESOURCES BOARD

Executive Order G-70-14-F

Relating to the Modification of the Certification of the Red Jacket Aspirator Assist Service Station Phase II Vapor Recovery System

Pursuant to the authority vested in the Air Resources Board (ARB) by Health and Safety Code Section 41954; and

Pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516;

IT IS ORDERED AND RESOLVED: That the certification issued on March 4, 1980, for the Red Jacket aspirator assist, Phase II vapor collection and disposal system is hereby modified

- 1. To include the Emco Wheaton A3006 vapor recovery nozzle as an alternative nozzle;
- 2. To include the Emco Wheaton A3007 vapor recovery nozzle, B.F. Goodrich co-axial hose assembly, and Emco Wheaton co-axial swivels, as components for an alternative hose configuration;
- 3. To delete the requirement for manifolding of vent pipes; and
- 4. To transfer certification of the alternate high hose configuration to the alternative high hose configuration certification, Executive Order G-70-52-E and subsequent G-70-52 modifications.

The system hereby modified is certified to be at least 95% effective at gasoline service stations in conjunction with Phase I vapor recovery systems which have been certified by the Air Resources Board. The system is described in Exhibits 1, 2, 3, 4, 5, and 6 attached hereto.

IT IS FURTHER ORDERED AND RESOLVED: That compliance with the applicable certification requirements and rules and regulations of the Division of Measurement Standards, the State Fire Marshal's Office, and the Division of Industrial Safety of the Department of Industrial Relations is made a condition of this certification.

IT IS FURTHER ORDERED AND RESOLVED: That the system certified hereby shall perform in actual use with the same effectiveness as the certification test system. Compliance with the applicable performance criterion shall be a condition of this certification, and failure to meet this criterion shall constitute grounds for revocation, suspension, or modification of this certification.

IT IS FURTHER ORDERED AND RESOLVED: That any alteration to the equipment, parts, design, or operation of the system certified hereby is prohibited, and deemed inconsistent with this certification, unless such alteration has been approved by the undersigned.

IT IS FURTHER ORDERED AND RESOLVED: That the OPW-7VE, Emco Wheaton A3006, and Emco Wheaton A3007 nozzles shall be 100 percent performance checked at the factory including checks or proper functioning of all automatic shut-off mechanisms.

IT IS FURTHER ORDERED AND RESOLVED: That during installation of the OPW-7VE, Emco Wheaton A3006, and Emco Wheaton A3007 nozzles they shall be performance tested for ability to dispense gasoline without difficulty in the presence of the station manager or other responsible individual. The station manager, owner or operator shall also be provided with instructions on the proper use of the nozzles, their repair and maintenance, and where nozzle replacements and nozzle components can be readily obtained. A copy of the nozzle warranty shall be made available to the station manager, owner or operator.

IT IS FURTHER ORDERED AND RESOLVED: That except for those non-retail outlets refueling special vehicles, in order for vapor return hoses longer than specified in this certification to be used, the system shall incorporate a liquid blockage detector which is acceptable to the undersigned.

Executed at Sacramento, California this 16th day of October, 1981.

James D. Boyd Executive Officer

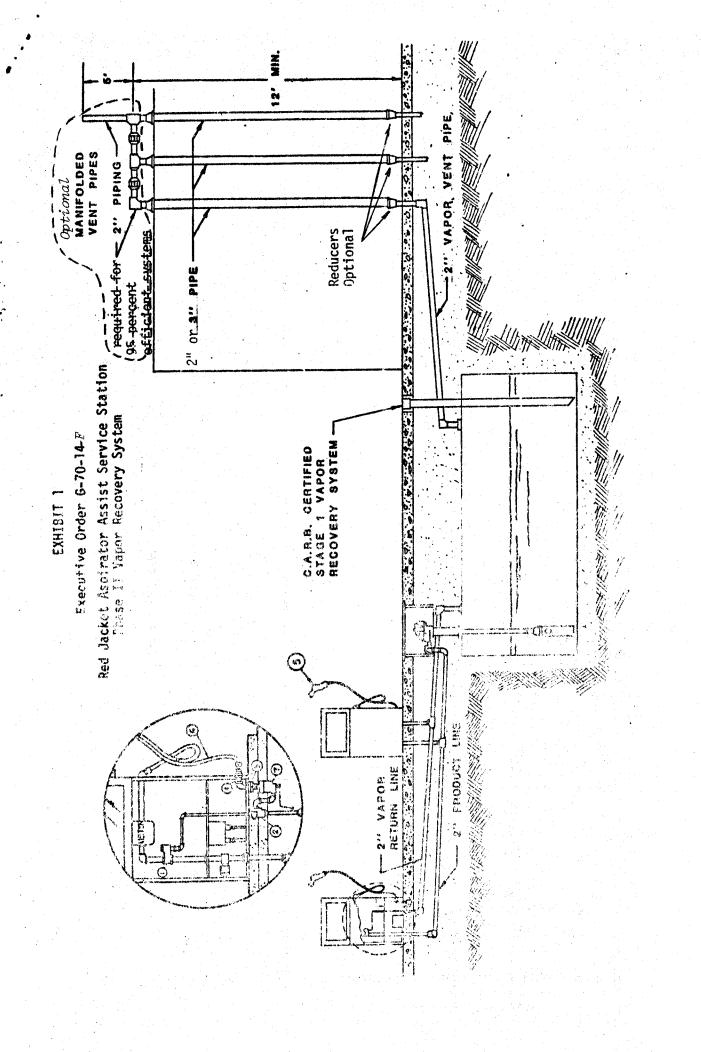


EXHIBIT S

Executive Order G-70-14-F

Hed Jacket Aspirator Assist Service Station

Phase II Vapor Recovery System

Component List

Substitute Equipment

	Item	Manufacturer and Model	State Fire Marchal Identification Number	Manufacturer and Model	State Fire Marshal Identification Number
1.	Podulating Valve	Red Jacket 188 - 185	GVRC002:001:1		
2.	Aspirator, without fluid by-pass Lubing	Red Jacket 104 - 016	GVRC002:001:2		
3.	hapor Check Valve	Red Jacket 188 - 184	GVRC002:001:3		
4.	Vapor Screen	Red Jacket 176 - 032	GVRC002:001:4		
5.	Pozzle, unleaded	OPW-7VE-49	GVRC-002:008:17	Emoo Wheaton (unleaded)	A3006 GVRC 005:007:20
	fuzzle, leaded	OPW-7VE-36	GVRC-002:008:15	Proc Wheaton	A3008 GVRC 005:007:20
	Nozzle, unleaded	OPW-7VE-47	GYRC-002:008:16		A0000 WING 000.007.20
	hozzle, leaded	OPW-7VE-34	GVRC-002:008:14		
6.	Vapor Return Hose	5/8 in. I.D. by 8	ft.		
7.	Recirculation Trap*	OPW78*	GVRC-002;008;12*		
8.	Swivels:				
	Vapor Hose	State Fire Marsha 0.495 in. I.D. P			
9.	Eductor System				

(For vapor return piping with insufficient slope, see Exhibit 3.)

Red Jacket 141-182 GVRC:002:001:13 Eductor Pressure Relief Valve Red Jacket 144-073 GVRC:002:001:14 Red Jacket 088-129 GVRC:002:001:15

Red Jacket 081-055 GVRC:002:001:16 Liquid Tank

Red Jacket 171-057 GVRC:002:001:17 10. Overhead Retractor (Optional, see Exhibit 4) latest version of Executive Order G-70-52

Emco Wheaton A-10† GVRC 001:007:1* 11. Flow Limiter

Liquid Check Valve

^{*}Not requried for overhead dispensers, see Exhibits 4 and 5. latest version of Executive Order G-70-52.

tRequired with Emoo Wheaton nozzle only.

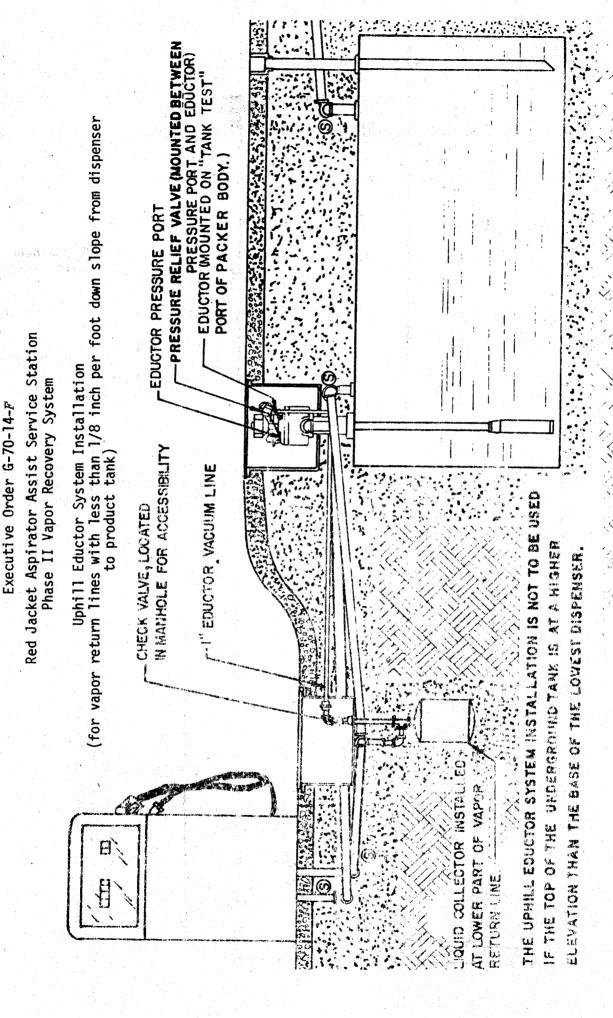
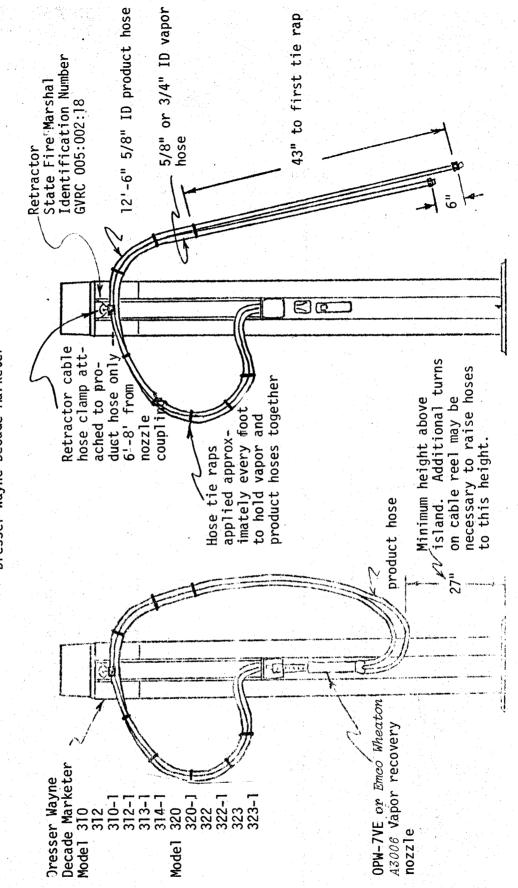


Exhibit 3

Executive Order G-70-14-F

Red Jacket Aspirator Assist Service Station
Phase II Vapor Recovery System
Alternative Hose Configuration
Dresser Wayne Decade Marketer



Notes: 1. Recirculation trap not required.

2. Hose swivels not required at dispenser end of hoses.

Flow Limiter Emco Wheaton AlO GVRC 001:007:1 required with Emco Wheaton A3006 nozzle.

Exhibit-4 Executive Order G-70-14-E

Red Jacket Aspirator Assist Service Station
Phase II Vapor Recovery System
Alternate Dispenser Configuration
Red Jacket Overhead Hose Retractor System

FLUID HOSE LENGTH:

12 Feet

VAPOR HOSE LENGTH:

As needed to permit natural drainage into dispenser and still avoid kinking

when fully extended

VAPOR HOSE DIAMETER:

5/8" inside diameter.

RETRACTOR REEL:

Ametek, Aero-Motive, Searle, or approved equivalent. State Fire Marshal Identification Number GVRC:002:001:17

CABLE LENGTH:

10 Feet

RECIRCULATION TRAP:

None

SWIVELS:

360⁰ in-line on each end of both fluid and vapor hose. State Fire Marshal Approved 0.495 in. I.D. minimum.

INSTALLATION DIMENSIONS:

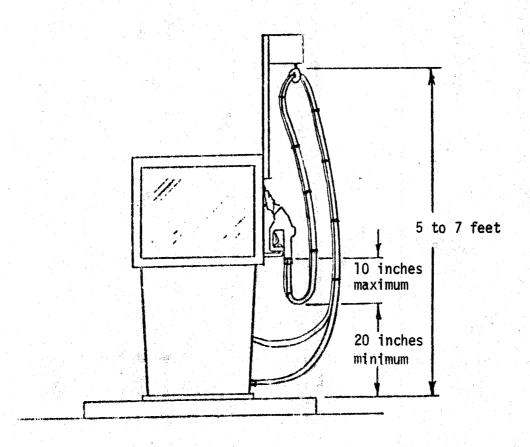


Exhibit 6

Executive Order G-70-14-F

Red Jacket Aspirator Assist Service Station Phase II Vapor Recovery System Alternative Hose Confirmation With B.F. Goodrich Co -Axial Hose

Component List

				Substitute Equipment	
	Item	Manufacturer and Model	State Fire Marshal Identification Number	Manufacturer and Model	State Fire Marshal Identification Number
1.	Nozzle	Emco Wheaton A3007 Vapor Recovery Nozzle (unleaded) Emco Wheaton A3007 Recovery Nozzle (leaded)	GVRC 005:007:21		
2.	Co-Axial Hose	B.F. Goodrich Co-Ax 8 to 9 feet long	GVRC 005:014:001		
3.	Swivels				
	aNozzle	Emco Wheaton Allo-001	GVRC 005:007:12		
	b. Island	Emco Wheaton A93-001 or	GVRC 005:007:10		
		A92-001	GVRC 005:007:11		
5.	Flow Limiter	Emco Wheaton A-10	GVRC 001:007:1		
6.	Recircul tion Tra		GVRC 002:008:12		
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Notes to Accompany Exhibits 1, 2, 3, 4, 5, and ϵ Executive Order G-70-14-F

- 1. One-inch or larger branch lines connecting to a two-inch return pipe are required.
- 2. Each vapor hose shall be located such that the center line of the hose fitting, at the swivel mounting at the dispenser housing, is not more than 3-1/2 inches above the top surface of the island, and is as close to the surface of the island as possible. (Does not apply to Exhibits 4 and 5) and alternative high hose configurations. See latest version of Executive Order G-70-52).
- 3. For dispenser islands greater than 5 feet in width, each vapor hose length shall not be longer than the sum of one-half the dispenser island width, in feet, plus 6 feet. (Does not apply to Exhibits 4 and-5) and alternative high hose configurations. See latest version of Executive Order G-70-52).
- 4. Product hose length shall be selected for each dispenser to provide for full extension of the vapor return hose. (Does not apply to Exhibits 4, 5, 6, and alternative high hose configurations. See latest version of Executive Order G-70-52).
- 5. State Fire Marshal approved swivels (and offsets if necessary) for this system shall be selected and installed on hoses to prevent hose kinking.
- 6. For only those non-retail outlets which fuel special vehicles, the installations of vapor recovery hoses longer than specified in this certification or in the latest version of Executive Order G-70-52 are allowed provided the following conditions are met:
 - a. The non-retail outlet fuels special vehicles such as large trucks, large skip loaders, off-the-road equipment, etc. where reaching the fill pipe requires longer hoses.
 - b. The vapor return hose length is no longer than required.
 - c. The vapor return hoses are arranged to be self-draining or provisions are made to drain the hoses after each refueling or the system incorporates an approved liquid blockage detection system arranged to cease dispensing when a blockage occurs.
 - d. The Executive Officer of the Air Resources Board has approved the plans for compliance with conditions b and c.
- 7. For those dispensers classified as non-commercial by the Division of Measurement Standards and are not required to be tested and sealed by Weights and Measures officials, the use of recirculation traps is optional. However, the use of recirculation traps is recommended by the Division of Measurement Standards in any installation where the user utilizes the gallonage figures.